

## Refine Search

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 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L9





### Search History

DATE: Tuesday, November 21, 2006   
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#### Set Name    Query

side by side

#### Hit Count    Set Name

result set

DB=USPT; PLUR=YES; OP=ADJ

L9    L6 and terephthalic acid

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L9

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

L8    L7 and terephthalic acid.ti.

5

L8
L7    L6 and terephthalic acid

59

L7
L6    L5 and acetic acid

61

L6
L5    L4 and 562/\$

61

L5
L4    carboxybenzaldehyde and L3

72

L4
L3    L2 and nickel and bromi\$6 and manganese

555

L3
L2    aromatic carboxylic acid and xylene and oxygen

3253

L2
L1    aromatic caroxylic acid and xylene and oxygen

5

L1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 29 returned.

☐ 1. Document ID: US 7098360 B2

L9: Entry 1 of 29

File: USPT

Aug 29, 2006

US-PAT-NO: 7098360

DOCUMENT-IDENTIFIER: US 7098360 B2

TITLE: Processes employing multiple successive chemical reaction process steps and apparatus therefore

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20040013587 A1

January 22, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 2. Document ID: US 6765113 B2

L9: Entry 2 of 29

File: USPT

Jul 20, 2004

US-PAT-NO: 6765113

DOCUMENT-IDENTIFIER: US 6765113 B2

TITLE: Production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 3. Document ID: US 6649791 B2

L9: Entry 3 of 29

File: USPT

Nov 18, 2003

US-PAT-NO: 6649791

DOCUMENT-IDENTIFIER: US 6649791 B2

TITLE: Process for the preparation of an aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. D
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☐ 4. Document ID: US 6642407 B2

L9: Entry 4 of 29

File: USPT

Nov 4, 2003

US-PAT-NO: 6642407

DOCUMENT-IDENTIFIER: US 6642407 B2

TITLE: Production, purification and polymerization of aromatic dicarboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6506931 B1

L9: Entry 5 of 29

File: USPT

Jan 14, 2003

US-PAT-NO: 6506931

DOCUMENT-IDENTIFIER: US 6506931 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Process for producing aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6194607 B1

L9: Entry 6 of 29

File: USPT

Feb 27, 2001

US-PAT-NO: 6194607

DOCUMENT-IDENTIFIER: US 6194607 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic hydrocarbons or partially oxidized intermediates thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 6180822 B1

L9: Entry 7 of 29

File: USPT

Jan 30, 2001

US-PAT-NO: 6180822

DOCUMENT-IDENTIFIER: US 6180822 B1

**\*\* See image for Certificate of Correction \*\***TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with carbon dioxide containing gas

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 6175038 B1

L9: Entry 8 of 29

File: USPT

Jan 16, 2001

US-PAT-NO: 6175038

DOCUMENT-IDENTIFIER: US 6175038 B1

**\*\* See image for Certificate of Correction \*\***

TITLE: Method of producing aromatic carboxylic acids by oxidizing alkyl aromatic compounds or partially oxidized intermediates thereof with oxygen-enriched gas

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 9. Document ID: US 6143925 A

L9: Entry 9 of 29

File: USPT

Nov 7, 2000

US-PAT-NO: 6143925

DOCUMENT-IDENTIFIER: US 6143925 A

TITLE: Process for producing aromatic carboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 10. Document ID: US 5756833 A

L9: Entry 10 of 29

File: USPT

May 26, 1998

US-PAT-NO: 5756833

DOCUMENT-IDENTIFIER: US 5756833 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Catalytic purification and recovery of dicarboxylic aromatic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 11. Document ID: US 5705682 A

L9: Entry 11 of 29

File: USPT

Jan 6, 1998

US-PAT-NO: 5705682

DOCUMENT-IDENTIFIER: US 5705682 A

TITLE: Process for producing highly pure terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 12. Document ID: US 5679847 A

L9: Entry 12 of 29

File: USPT

Oct 21, 1997

US-PAT-NO: 5679847

DOCUMENT-IDENTIFIER: US 5679847 A

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 13. Document ID: US 5663428 A

L9: Entry 13 of 29

File: USPT

Sep 2, 1997

US-PAT-NO: 5663428

DOCUMENT-IDENTIFIER: US 5663428 A

TITLE: Method for producing aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 14. Document ID: US 5616792 A

L9: Entry 14 of 29

File: USPT

Apr 1, 1997

US-PAT-NO: 5616792

DOCUMENT-IDENTIFIER: US 5616792 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Catalytic purification of dicarboxylic aromatic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 15. Document ID: US 5453538 A

L9: Entry 15 of 29

File: USPT

Sep 26, 1995

US-PAT-NO: 5453538

DOCUMENT-IDENTIFIER: US 5453538 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for the manufacture of aromatic dicarboxylic acids utilizing cerium to facilitate a low bromine to metals catalyst ratio

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 5362908 A

L9: Entry 16 of 29

File: USPT

Nov 8, 1994

US-PAT-NO: 5362908

DOCUMENT-IDENTIFIER: US 5362908 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Catalyst and method for purifying crude terephthalic acid, isophthalic acid or naphthalene dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 5354898 A

L9: Entry 17 of 29

File: USPT

Oct 11, 1994

US-PAT-NO: 5354898

DOCUMENT-IDENTIFIER: US 5354898 A

TITLE: Method for purifying crude aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 4892970 A

L9: Entry 18 of 29

File: USPT

Jan 9, 1990

US-PAT-NO: 4892970

DOCUMENT-IDENTIFIER: US 4892970 A

TITLE: Staged aromatics oxidation in aqueous systems

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 19. Document ID: US 4853479 A

L9: Entry 19 of 29

File: USPT

Aug 1, 1989

US-PAT-NO: 4853479

DOCUMENT-IDENTIFIER: US 4853479 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Process for the manufacture of aromatic dicarboxylic acids and derivatives thereof

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 20. Document ID: US 4827025 A

L9: Entry 20 of 29

File: USPT

May 2, 1989

US-PAT-NO: 4827025

DOCUMENT-IDENTIFIER: US 4827025 A

TITLE: Process for the production of aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. D.
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☐ 21. Document ID: US 4587355 A

L9: Entry 21 of 29

File: USPT

May 6, 1986

US-PAT-NO: 4587355

DOCUMENT-IDENTIFIER: US 4587355 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Oxidation with a solid catalyst

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. D
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☐ 22. Document ID: US 4330676 A

L9: Entry 22 of 29

File: USPT

May 18, 1982

US-PAT-NO: 4330676

DOCUMENT-IDENTIFIER: US 4330676 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Oxidation process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. D
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☐ 23. Document ID: US 4323699 A

L9: Entry 23 of 29

File: USPT

Apr 6, 1982

US-PAT-NO: 4323699

DOCUMENT-IDENTIFIER: US 4323699 A

TITLE: Oxidation of substituted aromatic compounds to aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMOC	Draw. D
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☐ 24. Document ID: US 4317919 A

L9: Entry 24 of 29

File: USPT

Mar 2, 1982

US-PAT-NO: 4317919

DOCUMENT-IDENTIFIER: US 4317919 A

TITLE: Recovery of bromine from effluent gases in the oxidation of substituted aromatics to form aromatic carboxylic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 25. Document ID: US 4314073 A

L9: Entry 25 of 29

File: USPT

Feb 2, 1982

US-PAT-NO: 4314073

DOCUMENT-IDENTIFIER: US 4314073 A

TITLE: Process for the production of an aromatic dicarboxylic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 26. Document ID: US 4258227 A

L9: Entry 26 of 29

File: USPT

Mar 24, 1981

US-PAT-NO: 4258227

DOCUMENT-IDENTIFIER: US 4258227 A

**\*\* See image for Certificate of Correction \*\***

TITLE: Short residence hydropyrolysis of residues from aromatic carboxylic acid manufacture

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 27. Document ID: US 4258209 A

L9: Entry 27 of 29

File: USPT

Mar 24, 1981

US-PAT-NO: 4258209

DOCUMENT-IDENTIFIER: US 4258209 A

TITLE: Process for preparing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 28. Document ID: US 4211882 A

L9: Entry 28 of 29

File: USPT

Jul 8, 1980

US-PAT-NO: 4211882

DOCUMENT-IDENTIFIER: US 4211882 A

TITLE: Process for producing terephthalic acid

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 29. Document ID: US 4202797 A

L9: Entry 29 of 29

File: USPT

May 13, 1980

US-PAT-NO: 4202797

DOCUMENT-IDENTIFIER: US 4202797 A

TITLE: Recovering catalyst values in reaction liquors from oxidative production of  
carboxylic and polycarboxilic acids

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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